



environmental engineers  
and consultants

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January 28, 2003

Mr. Ken Zolnierczyk  
U.S. Environmental Protection Agency  
Mail Code DT-85  
77 West Jackson Blvd.  
Chicago, IL 60604

Re: Former Kunkle Foundry  
Andrews, IN

Dear Mr. Zolnierczyk:

This letter summarizes the results of the borings that were proposed in our October 25, 2002 letter at the above referenced site, and provides notification that additional soil samples will be collected the week of March 3, 2003.

#### BACKGROUND

Figure 1 depicts the location of the former Kunkle Foundry in Andrews, Indiana, and Figure 2 depicts the site layout of the former Kunkle Foundry.

This foundry, located at 407 California Street in Andrews, was closed in approximately 2000. Huff & Huff was retained in 2001 to conduct limited soil samples beneath and adjacent to a former liquid filled transformer, which had been removed in 1996, by others. Two rounds of excavating have taken place with a total of 133 tons of material being taken to landfills. Further excavation to the north, east and west walls is constrained. The building wall defines the north wall of the excavation. A concrete slab, 9'x6'x2', hinders excavation to the west. The main electrical feed for the building is enclosed in a concrete block addition to the east of the excavation.

#### SOIL BORING RESULTS

On December 20, 2002, Huff & Huff completed five soil borings around the PCB excavation to delineate the extent of PCB impacted soils in the area. Figure 3 depicts the soil boring locations. The soil borings were advanced to a depth of 8 feet. Samples were collected from 0-1.5', 1.5'-3', 3-4.5', 4.5-6', and 6-8' in each boring and analyzed for PCB's. Table 1 presents the analytical results from the borings.

Six of the thirty samples did not achieve the 1 mg/kg cleanup level for high occupancy areas. In SB-1 the samples from 0-1.5', 4.5-6', and 6-8' were above 1 mg/kg with levels of 7.9, 1.1, and 9.1 mg/kg, respectively. In SB-2 the samples from 0-1.5' and 6-8' were above 1 mg/kg with levels of 1.3 and 5.8 mg/kg, respectively. In SB-4 the sample from 0-1.5' was above 1 mg/kg with a level of 1.4 mg/kg. All samples from SB-3 and SB-5 achieved the 1 mg/kg level. All of the soils at 1.5 to 3 feet and 3 to 4.5 feet were below 1 mg/kg PCB, and therefore no additional testing at these depths are proposed. In two borings, SB-1 and SB-2, the 6 to 8 foot depth was above the 1 mg/kg PCB level. This is the top of the water table. The PCB's found at the surface in SB-1, SB-2, and SB-4 are suggestive of a surface release(s)

With these results the area above 1 mg/kg has been defined to the east, but still needs to be defined to the south and west. Analytical results are included.

#### PROPOSED ADDITIONAL ACTIVITY

The subject area is a low-occupancy area, and all final excavation samples meet the 25 mg/kg PCB level. What is not achieved is 1 mg/kg along the south and west to define the extent required for low occupancy. The area below 1 mg/kg will be defined to determine the subject area on a deed restriction that the client is prepared to impose on the property. Figure 4 depicts the excavation and six additional soil borings. Soil samples from the soil borings will be collected from the following depth intervals:

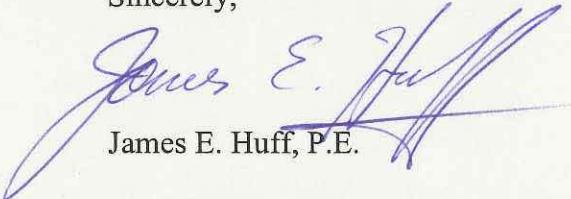
Depth, ft.	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26
0-5	X	X	X	X	X	X
5-10	X	X	X	X		

Samples from each boring will be composited into one sample for a total of 6 samples. These samples will be collected to verify the extent above 1 mg/kg remaining. Each of the 6 samples will be analyzed for PCBs, following chain-of-custody procedures. A field blank sample will be collected and analyzed to assure the equipment has not been contaminated. In addition one sample will be collected in duplicate. Documentation will be maintained in a log book, along with the Chain-of-Custody, and a report on results will be prepared.

#### CLOSURE

This letter is intended to serve notice that we will proceed with this work the third week in February, subject to any comments we receive. Thank you for your assistance.

Sincerely,



James E. Huff, P.E.

cc: K. Knauss  
R:\TYCO\Kunkle\PCB boring results letter.doc

TABLE 1  
FORMER KUNKLE FOUNDRY  
POLYCHLORINATED BIPHENYLS RESULTS  
December 12, 2002

Boring	Depth, ft	PCBs, mg/kg <sup>a/</sup>
SB-1	0-1.5	<b>7.900</b>
	1.5-3	0.369
	3-4.5	0.626
	4.5-6	<b>1.130</b>
	6-8	<b>9.120</b>
SB-2	0-1.5	<b>1.260</b>
	1.5-3	0.777
	3-4.5	0.184
	4.5-6	0.496
	6-8	<b>5.780</b>
SB-3	0-1.5	0.829
	1.5-3	0.993
	3-4.5	0.166
	4.5-6	0.287
	6-8	0.838
SB-4	0-1.5	<b>1.440</b>
	1.5-3	0.242
	3-4.5	<0.038
	4.5-6	0.231
	6-8	0.395
SB-5	0-1.5	<0.039
	1.5-3	<0.038
	3-4.5	<0.040
	4.5-6	<0.039
	6-8	<0.047

<sup>a/</sup> The only PCBs detected was 1260.

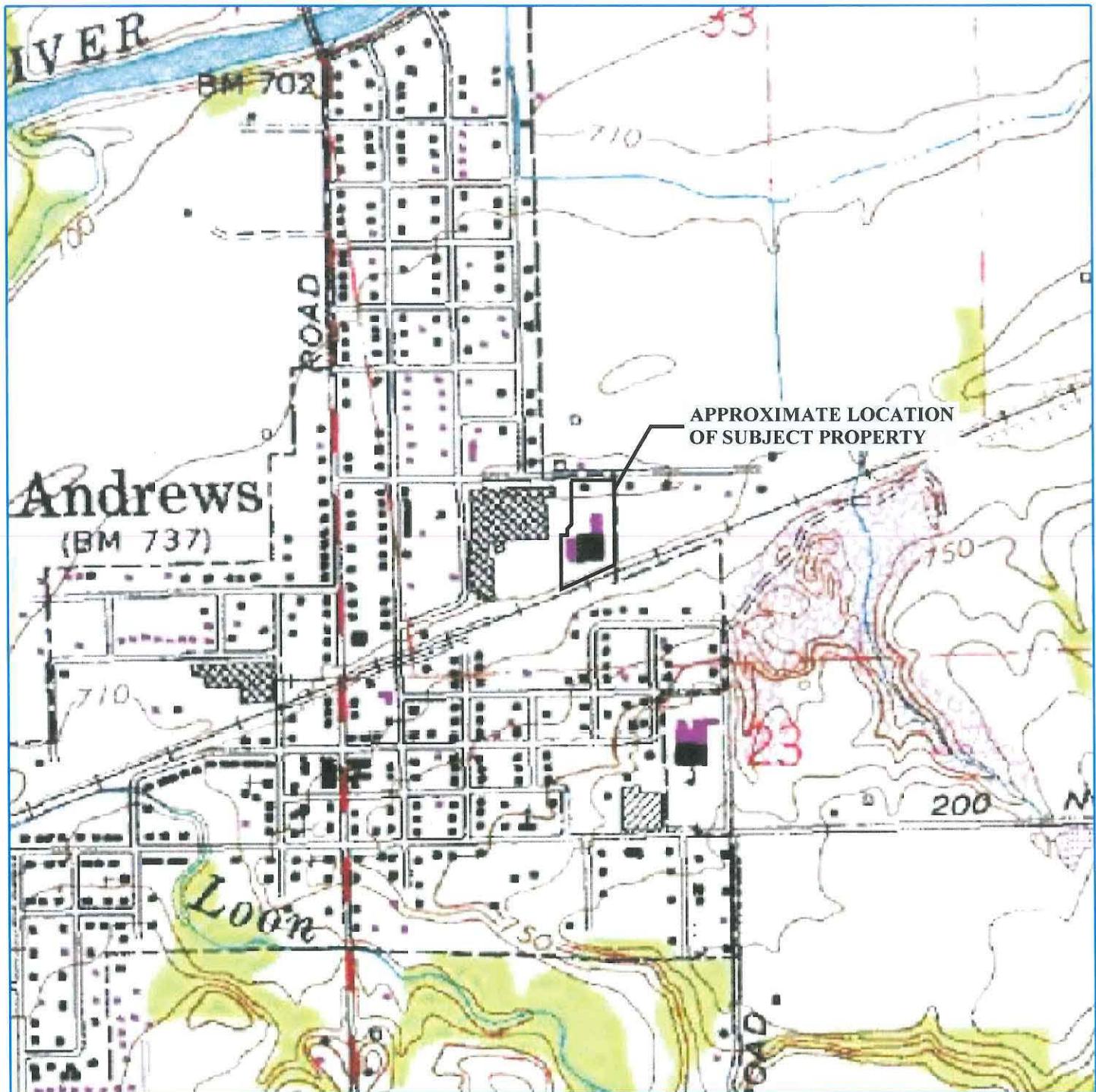
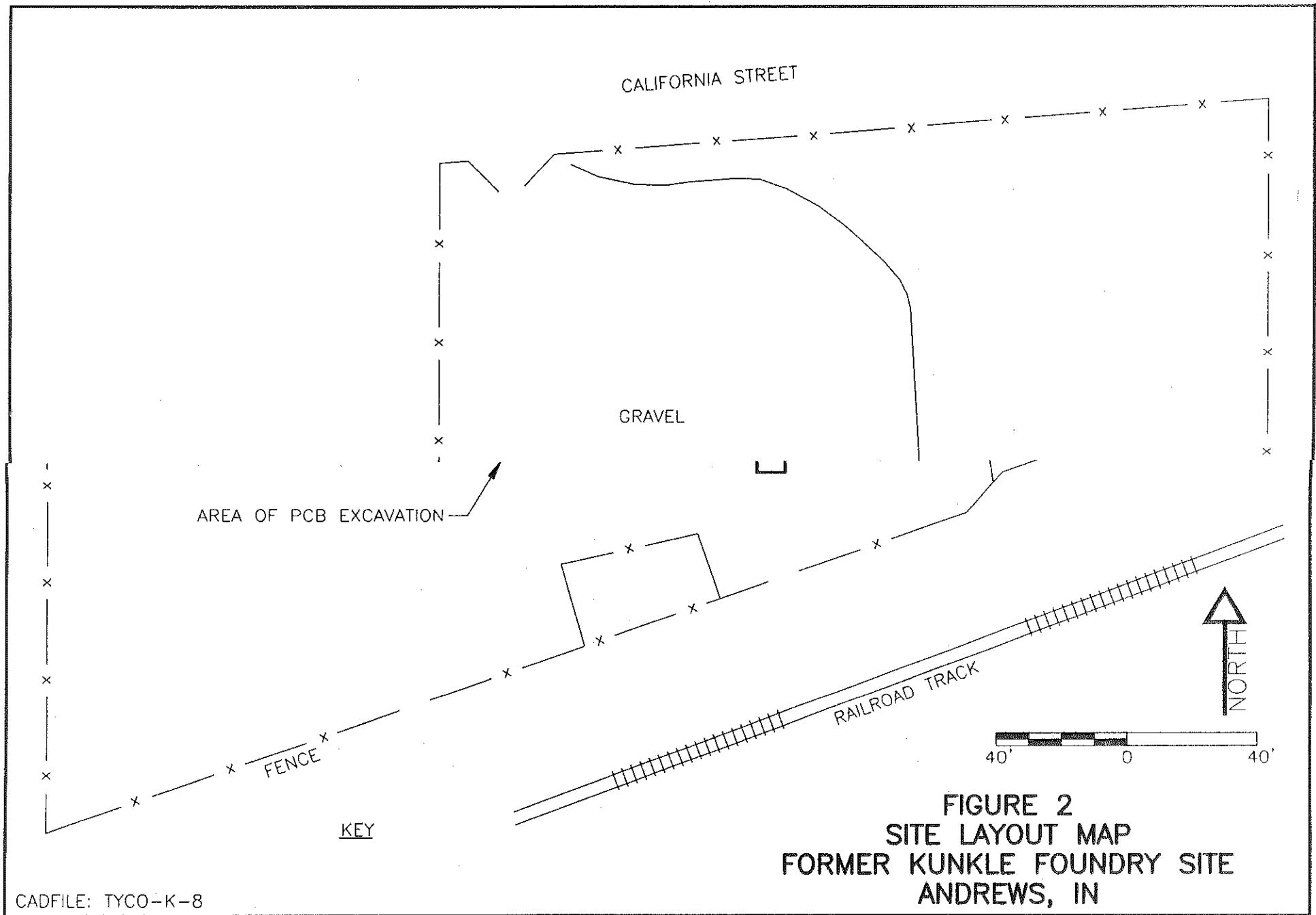


FIGURE 1  
SITE LOCATION MAP  
FORMER KUNKLE FOUNDRY SITE  
ANDREWS, INDIANA

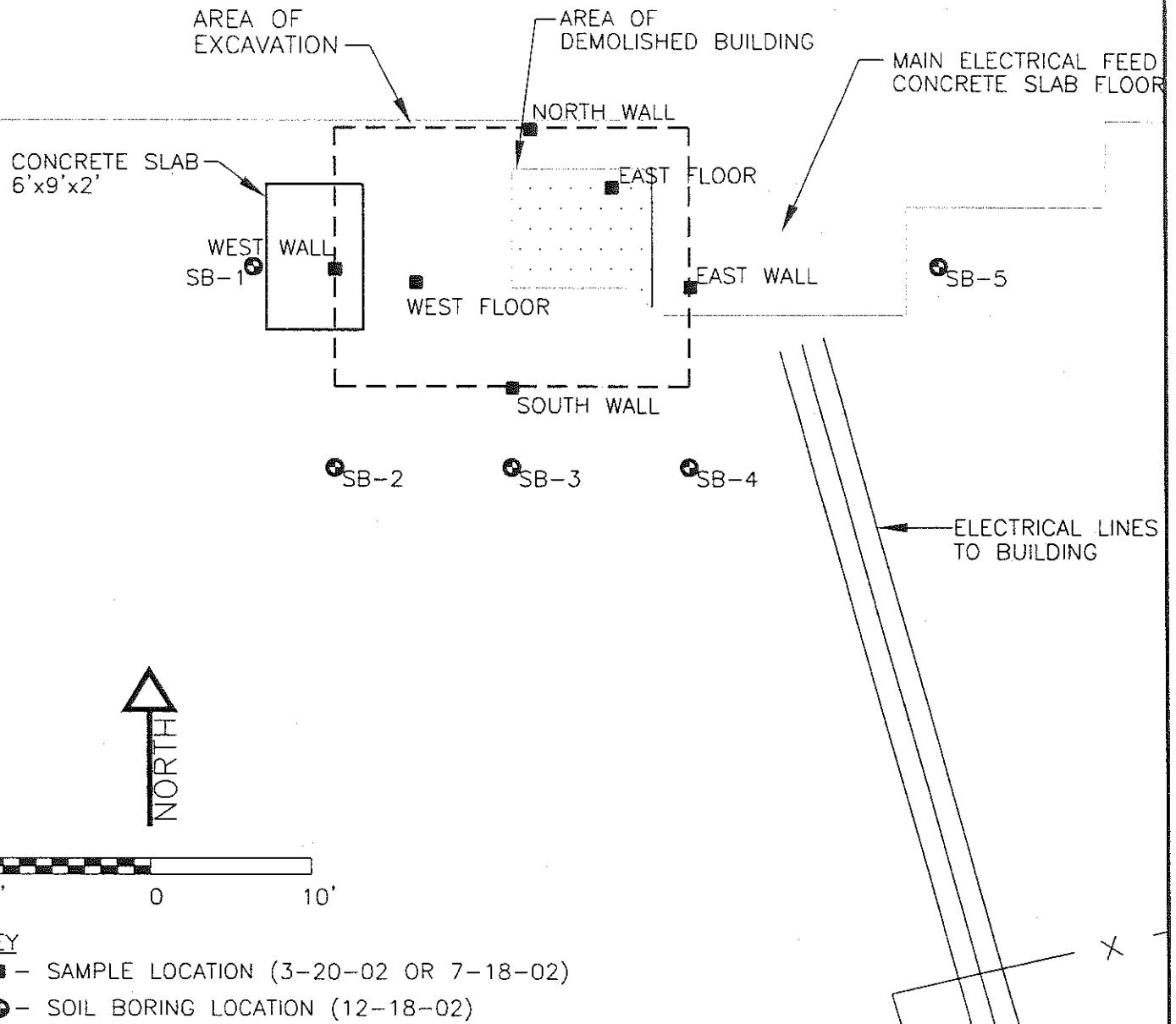
NORTH

0 .25 MILES

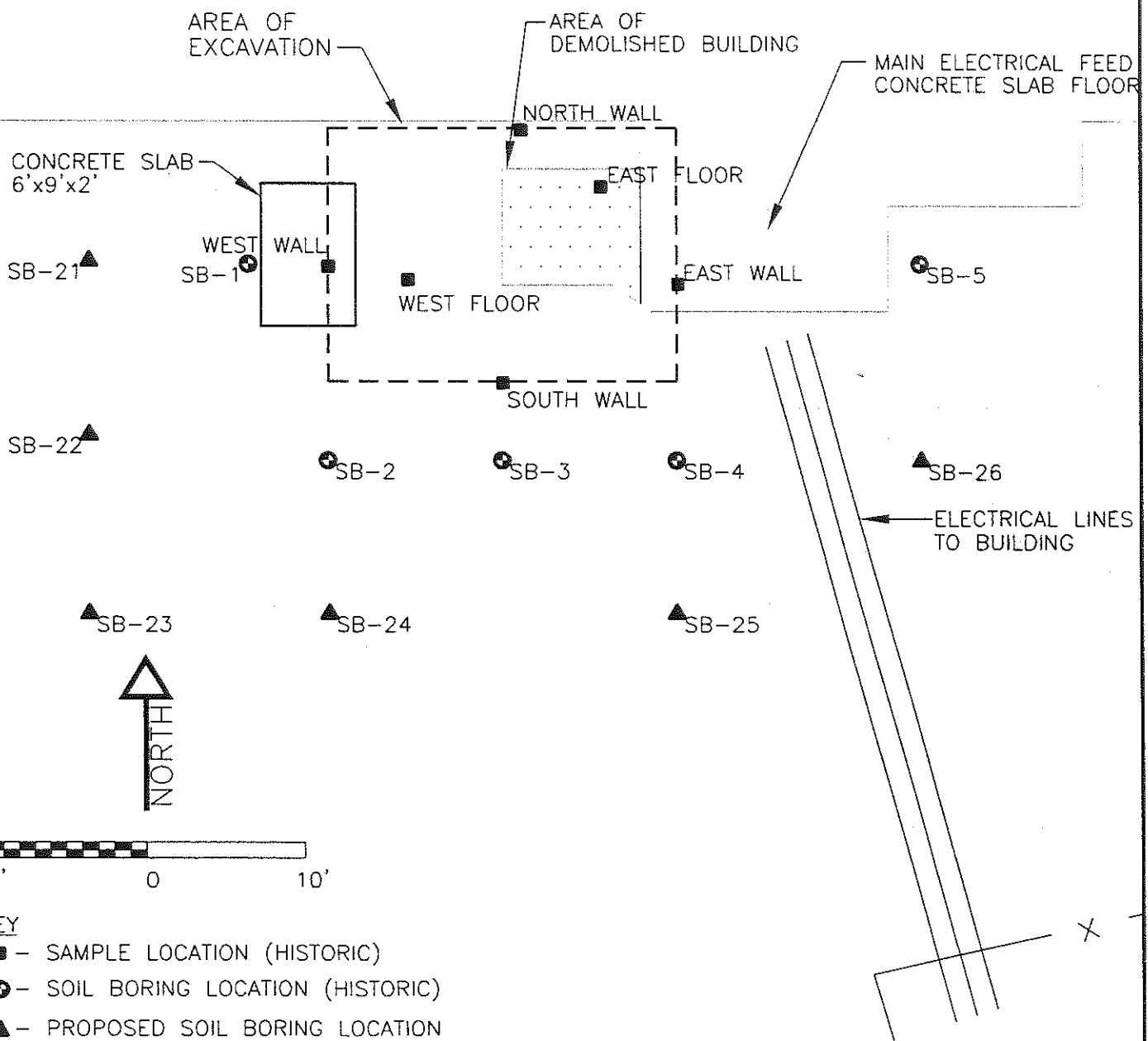
SOURCE: UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY



**FIGURE 2**  
**SITE LAYOUT MAP**  
**FORMER KUNKLE FOUNDRY SITE**  
**ANDREWS, IN**



**FIGURE 3**  
**VERIFICATION SOIL BORING LOCATION MAP**  
**FORMER KUNKLE FOUNDRY SITE**  
**ANDREWS, IN**



**FIGURE 4**  
**PROPOSED VERIFICATION SOIL BORING LOCATIONS**  
**FORMER KUNKLE FOUNDRY SITE**  
**ANDREWS, IN**

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Darren Greving  
Huff & Huff  
512 W. Burlington Street, Suite 100  
LaGrange, IL 60525

December 31, 2002

RE Tyco Kunkle / 2089

Lab Orders:  
02120635

Dear Mr. Darren Greving:

Enclosed are the analytical reports for the EMT Lab Order listed. If you have any questions, please contact me at 847-967-6666.

Sincerely,

*Shawn Lane/A*  
Shawn Lane  
Project Manager

Approved by,

*Mitchell Ostrowski*  
Mitchell Ostrowski  
Laboratory Director

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256  
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

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CLIENT: Huff & Huff

Date: 31-Dec-02

Project: Tyco Kunkle / 2089

## CASE NARRATIVE

Lab Order: 02120635

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Unless otherwise noted, samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results are indicated by the notation "dry" in the Units column.

Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

### Method References:

SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.

E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.

SM= APHA, Standard Methods for the Examination of Water and Wastewater.

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CLIENT: Huff & Huff

Date: 31-Dec-02

Project: Tyco Kunkle / 2089

## CASE NARRATIVE

Lab Order: 02120635

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D=ASTM, Annual Book of Standards

Analytical Comments for METHOD 8082\_SXPPM, 02120635-01A: Surrogate recovery is outside of the laboratory limits due to the coelution with PCB1260.

Analytical Comments for METHOD 8082\_SXPPM, 02120635-05A: Surrogate recovery is outside of the laboratory limits due to the coelution with PCB1260.

Analytical Comments for METHOD 8082\_SXPPM, 02120635-07A: MS/MSD is outside of the laboratory acceptance range.

Analytical Comments for METHOD 8082\_SXPPM, 02120635-10A: Surrogate recovery is outside of the laboratory limits due to the coelution with PCB1260.

Analytical Comments for METHOD 8082\_SXPPM, 02120635-21A: Surrogate recovery was above the laboratory acceptance range due to matrix effects.

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB1-0-1.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-01 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					<b>Method: 2540G</b>
Percent Moisture	11.6	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					<b>Method: SW8082</b>
Aroclor 1016	< 0.0662	0.0662	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1221	< 0.0561	0.0561	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1232	< 0.0666	0.0666	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1242	< 0.0662	0.0662	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1248	< 0.0561	0.0561	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1254	< 0.0561	0.0561	mg/Kg-dry	12/24/2002 1:38:00 PM	IP
Aroclor 1260	7.9	0.153	mg/Kg-dry	12/26/2002 3:01:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	195	79-143	S %REC	12/24/2002 1:38:00 PM	IP
3,5-Dichlorobiphenyl	90.9	74-133	%REC	12/24/2002 1:38:00 PM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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## **Report of Laboratory Analysis**

<b>CLIENT:</b>	Huff & Huff	<b>Client Sample ID:</b>	SB-1 1.5-3
<b>Lab Order:</b>	02120635	<b>Report Date:</b>	12/31/2002
<b>Project:</b>	Tyco Kunkle / 2089	<b>Collection Date:</b>	12/18/2002
<b>Lab ID:</b>	02120635-02	<b>Matrix:</b>	Soil

Analyses	Result	EMT Reporting Limit		Units	Date Analyzed	Analyst
<b>Percent Moisture</b>		<b>Method:</b> 2540G				
Percent Moisture	10.8	0.1	C	% (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method:</b> SW8082				
Aroclor 1016	< 0.0658	0.0658		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1221	< 0.0558	0.0558		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1232	< 0.0663	0.0663		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1242	< 0.0658	0.0658		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1248	< 0.0558	0.0558		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1254	< 0.0558	0.0558		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
Aroclor 1260	0.369	0.0379		mg/Kg-dry	12/24/2002 2:39:00 PM	IP
<b>Surrogates:</b>						
2,3,4,4',5,6-Hexachlorobiphenyl	106	79-143		%REC	12/24/2002 2:39:00 PM	IP
3,5-Dichlorobiphenyl	90.3	74-133		%REC	12/24/2002 2:39:00 PM	IP

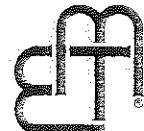
**Qualifiers:** B - Analyte detected in the associated Method Blank  
 S - Spike Recovery outside accepted recovery limits  
 E - Estimated  
 R - RPD outside accepted recovery limits  
 H - Holding Time Exceeded  
 J - Analyte detected below quantitation limits  
 C - Laboratory not accredited for this parameter

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-13-4.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-03 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	14.6	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0673	0.0673	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1221	< 0.057	0.057	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1232	< 0.0678	0.0678	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1242	< 0.0673	0.0673	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1248	< 0.057	0.057	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1254	< 0.057	0.057	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
Aroclor 1260	0.626	0.0388	mg/Kg-dry	12/24/2002 3:40:00 PM	IP
<b>Surrogates:</b>					
2,3,4,5,6-Hexachlorobiphenyl	119	79-143	%REC	12/24/2002 3:40:00 PM	IP
3,5-Dichlorobiphenyl	103	74-133	%REC	12/24/2002 3:40:00 PM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter  
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R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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## **Report of Laboratory Analysis**

**CLIENT:** Huff & Huff **Client Sample ID:** SB-145-6  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-04 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
Percent Moisture	<b>Method:</b> 2540G				
Percent Moisture	28.7	0.1	C % (Percent)	12/24/2002	RM2
Polychlorinated biphenyls (PCBs)	<b>Method:</b> SW8082				
Aroclor 1016	< 0.0815	0.0815	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1221	< 0.0691	0.0691	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1232	< 0.082	0.082	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1242	< 0.0815	0.0815	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1248	< 0.0691	0.0691	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1254	< 0.0691	0.0691	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Aroclor 1260	1.13	0.047	mg/Kg-dry	12/24/2002 4:40:00 PM	IP
Surrogates:					
2,3,4,4',5,6-Hexachlorobiphenyl	110	79-143	%REC	12/24/2002 4:40:00 PM	IP
3,5-Dichlorobiphenyl	88.4	74-133	%REC	12/24/2002 4:40:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff      **Client Sample ID:** SB-1 6-8  
**Lab Order:** 02120635      **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089      **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-05      **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	20.4	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0734	0.0734	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1221	< 0.0622	0.0622	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1232	< 0.0739	0.0739	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1242	< 0.0734	0.0734	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1248	< 0.0622	0.0622	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1254	< 0.0622	0.0622	mg/Kg-dry	12/24/2002 5:41:00 PM	IP
Aroclor 1260	9.12	0.169	mg/Kg-dry	12/26/2002 4:01:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	155	79-143	S %REC	12/24/2002 5:41:00 PM	IP
3,5-Dichlorobiphenyl	76.9	74-133	%REC	12/24/2002 5:41:00 PM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
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 C - Laboratory not accredited for this parameter  
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 J - Analyte detected below quantitation limits

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-2 0-1.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-06 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	10.9	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0656	0.0656	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1221	< 0.0556	0.0556	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1232	< 0.066	0.066	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1242	< 0.0656	0.0656	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1248	< 0.0556	0.0556	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1254	< 0.0556	0.0556	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
Aroclor 1260	1.26	0.0378	mg/Kg-dry	12/24/2002 6:42:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	132	79-143	%REC	12/24/2002 6:42:00 PM	IP
3,5-Dichlorobiphenyl	112	74-133	%REC	12/24/2002 6:42:00 PM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
 E - Estimated  
 H - Holding Time Exceeded  
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S - Spike Recovery outside accepted recovery limits  
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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-2 1.5-3  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-07 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	14.7	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0689	0.0689	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1221	< 0.0584	0.0584	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1232	< 0.0694	0.0694	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1242	< 0.0689	0.0689	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1248	< 0.0584	0.0584	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1254	< 0.0584	0.0584	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Aroclor 1260	0.777	0.0397	mg/Kg-dry	12/24/2002 7:43:00 PM	IP
Surrogates:					
2,3,4,4',5,6-Hexachlorobiphenyl	112	79-143	%REC	12/24/2002 7:43:00 PM	IP
3,5-Dichlorobiphenyl	99.8	74-133	%REC	12/24/2002 7:43:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

environmental laboratory and testing services

water | soil | air | product | waste |



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-2 3-4.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-08 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					<b>Method: 2540G</b>
Percent Moisture	10.8	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					<b>Method: SW8082</b>
Aroclor 1016	< 0.063	0.063	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1221	< 0.0534	0.0534	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1232	< 0.0635	0.0635	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1242	< 0.063	0.063	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1248	< 0.0534	0.0534	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1254	< 0.0534	0.0534	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
Aroclor 1260	0.184	0.0363	mg/Kg-dry	12/25/2002 12:47:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	108	79-143	%REC	12/25/2002 12:47:00 AM	IP
3,5-Dichlorobiphenyl	100	74-133	%REC	12/25/2002 12:47:00 AM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-24.5-6  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-09 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	28.9	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0821	0.0821	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1221	< 0.0696	0.0696	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1232	< 0.0826	0.0826	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1242	< 0.0821	0.0821	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1248	< 0.0696	0.0696	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1254	< 0.0696	0.0696	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
Aroclor 1260	0.496	0.0473	mg/Kg-dry	12/25/2002 1:48:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	114	79-143	%REC	12/25/2002 1:48:00 AM	IP
3,5-Dichlorobiphenyl	95.4	74-133	%REC	12/25/2002 1:48:00 AM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-2 6-8  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-10 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					<b>Method: 2540G</b>
Percent Moisture	15.5	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					<b>Method: SW8082</b>
Aroclor 1016	< 0.0666	0.0666	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1221	< 0.0564	0.0564	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1232	< 0.067	0.067	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1242	< 0.0666	0.0666	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1248	< 0.0564	0.0564	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1254	< 0.0564	0.0564	mg/Kg-dry	12/25/2002 2:49:00 AM	IP
Aroclor 1260	5.78	0.0767	mg/Kg-dry	12/26/2002 5:02:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	188	79-143	S %REC	12/25/2002 2:49:00 AM	IP
3,5-Dichlorobiphenyl	135	74-133	S %REC	12/25/2002 2:49:00 AM	IP

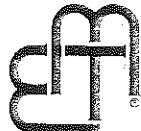
**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

environmental laboratory and testing services

water soil air product waste



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff      **Client Sample ID:** SB-3 0-1.5  
**Lab Order:** 02120635      **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089      **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-11      **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	15.1	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0684	0.0684	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1221	< 0.0579	0.0579	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1232	< 0.0688	0.0688	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1242	< 0.0684	0.0684	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1248	< 0.0579	0.0579	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1254	< 0.0579	0.0579	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
Aroclor 1260	0.829	0.0394	mg/Kg-dry	12/25/2002 3:49:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	128	79-143	%REC	12/25/2002 3:49:00 AM	IP
3,5-Dichlorobiphenyl	110	74-133	%REC	12/25/2002 3:49:00 AM	IP

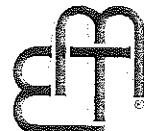
<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff                   **Client Sample ID:** SB-3 1.5-3  
**Lab Order:** 02120635                   **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089           **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-12                   **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	15.	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.069	0.069	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1221	< 0.0585	0.0585	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1232	< 0.0695	0.0695	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1242	< 0.069	0.069	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1248	< 0.0585	0.0585	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1254	< 0.0585	0.0585	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
Aroclor 1260	0.993	0.0398	mg/Kg-dry	12/25/2002 4:50:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	107	79-143	%REC	12/25/2002 4:50:00 AM	IP
3,5-Dichlorobiphenyl	91.0	74-133	%REC	12/25/2002 4:50:00 AM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff      **Client Sample ID:** SB-3 3-4.5  
**Lab Order:** 02120635      **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089      **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-13      **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	16.	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0695	0.0695	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1221	< 0.0589	0.0589	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1232	< 0.0699	0.0699	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1242	< 0.0695	0.0695	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1248	< 0.0589	0.0589	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1254	< 0.0589	0.0589	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
Aroclor 1260	0.166	0.04	mg/Kg-dry	12/25/2002 5:51:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	114	79-143	%REC	12/25/2002 5:51:00 AM	IP
3,5-Dichlorobiphenyl	93.9	74-133	%REC	12/25/2002 5:51:00 AM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-3 4.5-6  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-14 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>		<b>Method: 2540G</b>			
Percent Moisture	30.9	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method: SW8082</b>			
Aroclor 1016	< 0.0847	0.0847	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1221	< 0.0718	0.0718	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1232	< 0.0853	0.0853	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1242	< 0.0847	0.0847	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1248	< 0.0718	0.0718	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1254	< 0.0718	0.0718	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
Aroclor 1260	0.287	0.0488	mg/Kg-dry	12/25/2002 6:39:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	116	79-143	%REC	12/25/2002 6:39:00 AM	IP
3,5-Dichlorobiphenyl	108	74-133	%REC	12/25/2002 6:39:00 AM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
 E - Estimated  
 H - Holding Time Exceeded  
 C - Laboratory not accredited for this parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 J - Analyte detected below quantitation limits

environmental laboratory and testing services

water | soil | air | product | waste



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-3 6-8  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-15 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>		<b>Method: 2540G</b>			
Percent Moisture	22.5	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method: SW8082</b>			
Aroclor 1016	< 0.0738	0.0738	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1221	< 0.0625	0.0625	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1232	< 0.0743	0.0743	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1242	< 0.0738	0.0738	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1248	< 0.0625	0.0625	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1254	< 0.0625	0.0625	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
Aroclor 1260	0.838	0.0425	mg/Kg-dry	12/25/2002 7:27:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	117	79-143	%REC	12/25/2002 7:27:00 AM	IP
3,5-Dichlorobiphenyl	105	74-133	%REC	12/25/2002 7:27:00 AM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

environmental laboratory and testing services

[ water ] [ soil ] [ air ] [ product ] [ waste ]



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-4 0-1.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-16 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	7.65	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0622	0.0622	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1221	< 0.0527	0.0527	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1232	< 0.0626	0.0626	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1242	< 0.0622	0.0622	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1248	< 0.0527	0.0527	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1254	< 0.0527	0.0527	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
Aroclor 1260	1.44	0.0358	mg/Kg-dry	12/25/2002 8:14:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	117	79-143	%REC	12/25/2002 8:14:00 AM	IP
3,5-Dichlorobiphenyl	95.3	74-133	%REC	12/25/2002 8:14:00 AM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

**environmental laboratory and testing services**

water | soil | air | product | waste |



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-4 1.5-3  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-17 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	14.8	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0673	0.0673	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1221	< 0.0571	0.0571	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1232	< 0.0678	0.0678	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1242	< 0.0673	0.0673	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1248	< 0.0571	0.0571	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1254	< 0.0571	0.0571	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
Aroclor 1260	0.242	0.0388	mg/Kg-dry	12/25/2002 11:17:00 AM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	102	79-143	%REC	12/25/2002 11:17:00 AM	IP
3,5-Dichlorobiphenyl	92.7	74-133	%REC	12/25/2002 11:17:00 AM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
 E - Estimated  
 H - Holding Time Exceeded  
 C - Laboratory not accredited for this parameter

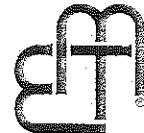
S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 J - Analyte detected below quantitation limits

**environmental laboratory and testing services**

water	soil	air	product	waste
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847.857.6666 • 800.248.0680 • fax: 847.857.6785 • [www.emi.com](http://www.emi.com)

## **Report of Laboratory Analysis**

**CLIENT:** Huff & Huff **Client Sample ID:** SB-4 3-4.5  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-18 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>	<b>Method:</b> 2540G				
Percent Moisture	13.6	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method:</b> SW8082				
Aroclor 1016	< 0.0654	0.0654	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1221	< 0.0554	0.0554	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1232	< 0.0659	0.0659	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1242	< 0.0654	0.0654	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1248	< 0.0554	0.0554	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1254	< 0.0554	0.0554	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
Aroclor 1260	< 0.0377	0.0377	mg/Kg-dry	12/25/2002 12:05:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	112	79-143	%REC	12/25/2002 12:05:00 PM	IP
3,5-Dichlorobiphenyl	103	74-133	%REC	12/25/2002 12:05:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

environmental laboratory and testing services

water soil air product waste



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## **Report of Laboratory Analysis**

**CLIENT:** Huff & Huff **Client Sample ID:** SB-4 4.5-6  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-19 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>	<b>Method:</b> 2540G				
Percent Moisture	30.6	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method:</b> SW8082				
Aroclor 1016	< 0.0822	0.0822	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1221	< 0.0697	0.0697	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1232	< 0.0828	0.0828	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1242	< 0.0822	0.0822	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1248	< 0.0697	0.0697	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1254	< 0.0697	0.0697	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
Aroclor 1260	0.231	0.0474	mg/Kg-dry	12/25/2002 12:52:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	128	79-143	%REC	12/25/2002 12:52:00 PM	IP
3,5-Dichlorobiphenyl	112	74-133	%REC	12/25/2002 12:52:00 PM	IP

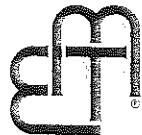
<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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water      soil      air      product      waste



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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff **Client Sample ID:** SB-4 6-8  
**Lab Order:** 02120635 **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089 **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-20 **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>		<b>Method: 2540G</b>			
Percent Moisture	32.1	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method: SW8082</b>			
Aroclor 1016	< 0.0866	0.0866	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1221	< 0.0734	0.0734	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1232	< 0.0872	0.0872	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1242	< 0.0866	0.0866	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1248	< 0.0734	0.0734	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1254	< 0.0734	0.0734	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
Aroclor 1260	0.395	0.0499	mg/Kg-dry	12/25/2002 1:40:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	97.2	79-143	%REC	12/25/2002 1:40:00 PM	IP
3,5-Dichlorobiphenyl	80.9	74-133	%REC	12/25/2002 1:40:00 PM	IP

**Qualifiers:** B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff                           **Client Sample ID:** SB-5 0-1.5  
**Lab Order:** 02120635                           **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089                   **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-21                           **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	14.4	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	11.	0.272	mg/Kg-dry	12/27/2002 9:36:00 PM	IP
Aroclor 1221	< 0.0577	0.0577	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
Aroclor 1232	< 0.0685	0.0685	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
Aroclor 1242	< 0.0681	0.0681	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
Aroclor 1248	< 0.0577	0.0577	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
Aroclor 1254	< 0.0577	0.0577	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
Aroclor 1260	< 0.0392	0.0392	mg/Kg-dry	12/26/2002 6:03:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	147	79-143	S %REC	12/26/2002 6:03:00 PM	IP
3,5-Dichlorobiphenyl	118	74-133	%REC	12/26/2002 6:03:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff                   **Client Sample ID:** SB-5 1.5-3  
**Lab Order:** 02120635                   **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089           **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-22                   **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>		<b>Method:</b> 2540G			
Percent Moisture	11.4	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>		<b>Method:</b> SW8082			
Aroclor 1016	< 0.0653	0.0653	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1221	< 0.0554	0.0554	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1232	< 0.0658	0.0658	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1242	< 0.0653	0.0653	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1248	< 0.0554	0.0554	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1254	< 0.0554	0.0554	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
Aroclor 1260	< 0.0377	0.0377	mg/Kg-dry	12/26/2002 7:04:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	108	79-143	%REC	12/26/2002 7:04:00 PM	IP
3,5-Dichlorobiphenyl	103	74-133	%REC	12/26/2002 7:04:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff                   **Client Sample ID:** SB-5 3-4.5  
**Lab Order:** 02120635                   **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089           **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-23                   **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	13.5	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	< 0.0675	0.0675	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1221	< 0.0572	0.0572	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1232	< 0.068	0.068	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1242	< 0.0675	0.0675	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1248	< 0.0572	0.0572	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1254	< 0.0572	0.0572	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
Aroclor 1260	< 0.0389	0.0389	mg/Kg-dry	12/26/2002 8:05:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	114	79-143	%REC	12/26/2002 8:05:00 PM	IP
3,5-Dichlorobiphenyl	102	74-133	%REC	12/26/2002 8:05:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

**CLIENT:** Huff & Huff                   **Client Sample ID:** SB-5 4.5-6  
**Lab Order:** 02120635                   **Report Date:** 12/31/2002  
**Project:** Tyco Kunkle / 2089           **Collection Date:** 12/18/2002  
**Lab ID:** 02120635-24                   **Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>					
Percent Moisture	16.	0.1	C % (Percent)	12/24/2002	RM2
<b>Polychlorinated biphenyls (PCBs)</b>					
Aroclor 1016	6.7	0.134	mg/Kg-dry	12/27/2002 8:35:00 PM	IP
Aroclor 1221	< 0.057	0.057	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
Aroclor 1232	< 0.0677	0.0677	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
Aroclor 1242	< 0.0672	0.0672	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
Aroclor 1248	< 0.057	0.057	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
Aroclor 1254	< 0.057	0.057	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
Aroclor 1260	< 0.0388	0.0388	mg/Kg-dry	12/26/2002 9:05:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	106	79-143	%REC	12/26/2002 9:05:00 PM	IP
3,5-Dichlorobiphenyl	91.7	74-133	%REC	12/26/2002 9:05:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## **Report of Laboratory Analysis**

**CLIENT:** Huff & Huff  
**Lab Order:** 02120635  
**Project:** Tyco Kunkle / 2089  
**Lab ID:** 02120635-25

**Client Sample ID:** SB-5 6-8  
**Report Date:** 12/31/2002  
**Collection Date:** 12/18/2002  
**Matrix:** Soil

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Percent Moisture</b>	<b>Method:</b> 2540G				
Percent Moisture	29.5	0.1	C	% (Percent)	12/24/2002
<b>Polychlorinated biphenyls (PCBs)</b>	<b>Method:</b> SW8082				
Aroclor 1016	0.102	0.0822	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1221	< 0.0697	0.0697	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1232	< 0.0828	0.0828	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1242	< 0.0822	0.0822	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1248	< 0.0697	0.0697	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1254	< 0.0697	0.0697	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
Aroclor 1260	< 0.0474	0.0474	mg/Kg-dry	12/26/2002 10:06:00 PM	IP
<b>Surrogates:</b>					
2,3,4,4',5,6-Hexachlorobiphenyl	101	79-143	%REC	12/26/2002 10:06:00 PM	IP
3,5-Dichlorobiphenyl	94.8	74-133	%REC	12/26/2002 10:06:00 PM	IP

<b>Qualifiers:</b>	B - Analyte detected in the associated Method Blank	S - Spike Recovery outside accepted recovery limits
	E - Estimated	R - RPD outside accepted recovery limits
	H - Holding Time Exceeded	J - Analyte detected below quantitation limits
	C - Laboratory not accredited for this parameter	

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## Report of Laboratory Analysis

CLIENT: Huff & Huff  
Lab Order: 02120635  
Project: Tyco Kunkle / 2089  
Lab ID: 02120635-26

Client Sample ID: FIELD BLANK  
Report Date: 12/31/2002  
Collection Date: 12/18/2002  
Matrix: Groundwater

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Analyst
<b>Polychlorinated biphenyls, PCBs</b>					
			Method: SW8082		
Aroclor 1016	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1221	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1232	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1242	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1248	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1254	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Aroclor 1260	< 0.01	0.01	mg/L	12/23/2002 4:20:00 PM	IP
Surrogates:					
2,3,4,4',5,6-Hexachlorobiphenyl	103	66-105	%REC	12/23/2002 4:20:00 PM	IP
3,5-Dichlorobiphenyl	96.6	58-113	%REC	12/23/2002 4:20:00 PM	IP

Qualifiers: B - Analyte detected in the associated Method Blank  
E - Estimated  
H - Holding Time Exceeded  
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits

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# Environmental Monitoring & Technologies, Inc.

## Sample Receipt Checklist

Client Name HUFF

Date and Time Receive

12/20/02

Work Order Number 02120635

Received by JM

Checklist completed by

Signature

Date

Reviewed by

Initials

Date

Matrix:

Carrier name: EMT

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present and complete?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<i>No ✓ D2A has 24oz not 1</i>
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted?

Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted

Date contacted:

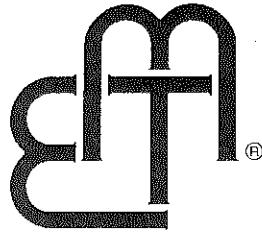
Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action



**ENVIRONMENTAL  
MONITORING AND  
TECHNOLOGIES, INC.**

8100 North Austin Avenue  
Morton Grove, Illinois 60053-3203

**Chain of Custody Record**

TURNAROUND TIME:

RUSH

\_\_\_\_\_ day turnaround

ROUTINE

847-967-6666  
FAX: 847-967-6735  
www.emt.com

Due Date: 12-27-02 COC #: 114003

Company: HUFF & HUFF INC.  
Address: 572 W. BURLINGTON AVE  
SUITE 100  
LAWRENCE IL 60525  
Phone #: (708) 571-5940 Fax #: (708) 571-3526  
P.O. #: 2089 Proj. #: -  
Client Contact: Dawn Gruen  
Project ID / Location: TYCO KUNKLE

**Sample Type:**  
1. Waste Water 4. Sludge 7. Groundwater (filtered)  
2. Drinking Water 5. Oil 8. Other  
3. Soil 6. Groundwater

**Container Type:**  
P - Plastic V - VOC Vial O - Other  
G - Glass B - Tedlar Bag

**Preservative:**  
1. None 4. NaOH 7. Zn Ace  
2. H<sub>2</sub>SO<sub>4</sub> 5. HCl 8. Other  
3. HNO<sub>3</sub> 6. MeOH

**Analyses**

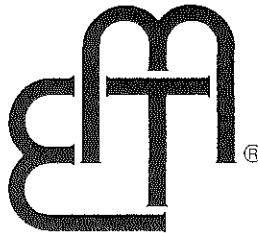
EMT  
USE  
ONLY

EMT  
WORKORDER

#02120635

Sample I.D.	Sample Type	Container			Sampling				Preservation		RHS	QA
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	
SB-1 - 0-15	3	4oz	G	1	DML	12/18				X		01A
SB-1 1.5-3	(	(	(	(						X		02A
SB-1 3-4.5	(	(	(	(						X		03A
SB-1 4.5-6	(	(	(	(						X		04A
SB-1 6-8	(	(	(	(						X		05A
SB-2 0-15	(	(	(	(						X		06A
SB-2 1.5-3	(	(	(	(						X		07A
SB-2 3-4.5	(	(	(	(						X		08A
SB-2 4.5-6	(	(	(	(						X		09A
SB-2 6-8	3	4oz	G	1	DML	12/18				X		10A
Relinquished By: <i>Dawn Gruen</i>	Date: 12-20-02	Received By: <i>Jeffrey D. Hauk</i>	Date: 12-20-02	EMT USE ONLY								<input type="checkbox"/> SAMPLE RECEIVED ON ICE
	Time: 1:55		Time: 13:55									<input checked="" type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By: <i>Jeffrey D. Hauk</i>	Date: 12-20-02	Received By: <i>Jimmy</i>	Date: - -	EMT Project I.D.								30C
	Time: 17:00		Time: :									
Relinquished By: <i>Jimmy</i>	Date: - -	Received For Lab By: <i>Jimmy</i>	Date: 12-20-02	Jar Lot No.								<b>EMT SAMPLE RETURN POLICY ON BACK</b>
	Time: :		Time: 17:00									

**SPECIAL INSTRUCTIONS:**



**ENVIRONMENTAL  
MONITORING AND  
TECHNOLOGIES, INC.**

8100 North Austin Avenue  
Morton Grove, Illinois 60053-3203

**Chain of Custody Record**

847-967-6666  
FAX: 847-967-6735  
www.emt.com

TURNAROUND TIME:  
 RUSH \_\_\_\_\_ day turnaround  
 ROUTINE

Due Date: \_\_\_\_\_ COC #: 114009

Company: HUFF STUFF, INC.  
 Address: 512 W. BURLINGTON AVE  
SITE 100  
LAWRENCE IL 60525  
 Phone #: (708) 579-5940 Fax #: (708) 579-  
 P.O. #: 2089 Proj. #: -  
 Client Contact: DANIEL GREGORY  
 Project ID / Location: TYCO KUNKLE

**Sample Type:**  
 1. Waste Water 4. Sludge 7. Groundwater (filtered)  
 2. Drinking Water 5. Oil 8. Other  
 3. Soil 6. Groundwater \_\_\_\_\_

**Container Type:**  
 P - Plastic V - VOC Vial O - Other  
 G - Glass B - Tedlar Bag \_\_\_\_\_

**Preservative:**  
 1. None 4. NaOH 7. Zn Ace  
 2. H<sub>2</sub>SO<sub>4</sub> 5. HCl 8. Other  
 3. HNO<sub>3</sub> 6. MeOH \_\_\_\_\_

**Analyses**

EMT  
USE  
ONLY

EMT  
WORKORDER  
# 02120635

Sample I.D.	Sample Type	Container			Sampling				Preservation		P/S	1A 12A 13A 14A 15A 16A 17A 18A 19A 20A
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab	
SB-3 0-15	3	402	G	1	DMH	12/18				X		
SB-3 15-3										X		
SB-3 3-4.5										X		
SB-3 4.5-6										X		
SB-3 6-8										X		
SB-4 0-15										X		
SB-4 15-3										X		
SB-4 3-4.5										X		
SB-4 4.5-6										X		
SB-4 6-8	3	402	G	1	DMH	12/18				X		
Relinquished By:	Date: 12-20-02	Received By:	Date: 12-20-02	EMT USE ONLY								
	Time: 1:55		Time: 13:55	Client Code: HUFF								
Relinquished By:	Date: 12-20-02	Received By:	Date: - -	EMT Project I.D.								
	Time: 17:00		Time: :	HUFF Soil								
Relinquished By:	Date: - -	Received For Lab By:	Date: 12-20-02	Jar Lot No.								
	Time: :		Time: 17:00									

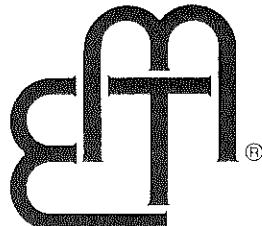
**SPECIAL INSTRUCTIONS:**

SAMPLE RECEIVED  
ON ICE

TEMPERATURE  
(Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

30C

**EMT SAMPLE RETURN  
POLICY ON BACK**



# **ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.**

8100 North Austin Avenue  
Morton Grove, Illinois 60053-3203

## Chain of Custody Record

TURNAROUND TIME:  
 RUSH \_\_\_\_\_ day turnaround  
 ROUTINE

Due Date: 12-27-02 COC #: 114013

Company: HUFF & HUFF, INC.  
Address: 512 W. BURLINGTON AVE.  
SUITE 100  
LAHMALLE IL 60525  
Phone #: (708) 579 - 5740 Fax #: (708) 579 - 3526  
P.O. #: 2089 Proj. #: \_\_\_\_\_  
Client Contact: DAREN GREENING  
Project ID / Location: TYCO KUNKLE

**Container Type:**  
P - Plastic    V - VOC Vial    O - Other  
G - Glass    B - Tedlar Bag

## Analyses

**EMT  
USE  
ONLY**

**EMT  
WORKORDER**

卷 62120633

Relinquished By: <i>Dan G.</i>	Date: 12-20-02 Time: 155	Received By: <i>Jeffrey D. Hauk</i>	Date: 12-20-02 Time: 13:55	EMT USE ONLY Client Code: HUFF	<input type="checkbox"/> SAMPLE RECEIVED ON ICE <input checked="" type="checkbox"/> TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) <i>30c</i>
Relinquished By: <i>Jeffrey D. Hauk</i>	Date: 12-20-02 Time: 17:00	Received By:	Date: - - Time: :	EMT Project I.D. <i>HUFF Soi.</i>	
Relinquished By:	Date: - - Time: :	Received For Lab By: <i>Cherry</i>	Date: 12-20-02 Time: 17:00	Jar Lot No.	<b>EMT SAMPLE RETURN POLICY ON BACK</b>

**SPECIAL INSTRUCTIONS:**